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FLIESLER MEYER, LLP FOUR EMBARCADERO CENTER SUITE 400 SAN FRANCISCO, CA 94111			BATURAY, ALICIA	
			ART UNIT	PAPER NUMBER
			2155	

DATE MAILED: 08/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/975,587	Applicant(s) JACOBS ET AL.	
	Examiner Alicia Baturay	Art Unit 2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>07/20/2005, 08/04/2004, 04/14/2003, 12/10/2003, 04/09/2004, 04/16/2004, 01/24/2005</u> | 6) <input type="checkbox"/> Other: _____ |

D

DETAILED ACTION

1. Claims 1-51 are pending.

Specification

2. The disclosure is objected to because of the following informalities: the Application fails to disclose the related US application serial numbers for the co-pending applications referenced in the specification, on page 1. It is suggested that Applicant update this section by including the US Application serial numbers, filing dates, and the current status of the applications. Appropriate correction is required.

Claim Objections

3. Claims 1, 36, 40, 41, 46, and 47-51 are objected to because of the following informalities: they are written in an outline format (a., i., etc.), and should be written in sentence form. Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 1-35 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter, essentially software per se. While claim 1 details the use of master and slave servers, there is nothing in claims 1-35 which explicitly indicates that a

computer is performing any of the steps. This is further compounded by Applicant's use of the phrase "adapted to," which merely means that the steps following "adapted to" are not prevented from occurring, not that they are actually occurring.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-5, 7-20, and 24-51 are rejected under 35 U.S.C. 102(b) as being anticipated by Gehani et al. (U.S. 5,765,171).

8. With respect to claim 1, Gehani teaches a system for replicating data over a network, comprising:

A master server containing an original copy of the data, the master server comprising: a master user layer adapted to start a data replication process by calling a start method, the master user layer further adapted to send information relating to the original copy of the data; a master service layer containing the start method and adapted to receive the call from the master user layer and the information relating to the original copy of the data, the master service layer further adapted to create and send a data replication packet containing at least some of the information relating to the original copy of the data (Gehani, col. 7, lines 44-46); a slave server

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adapted to store a copy of the data from the master server, the slave server comprising: a slave service layer adapted to receive the data replication packet from the master service layer and process the data replication packet, the slave service layer further adapted to send information relating to the data replication packet; and a slave user layer adapted to receive the information relating to the data replication packet from the slave service layer, the slave user layer adapted to store the information in the data replication packet (Gehani, col. 7, lines 46-60).

9. With respect to claim 2, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is in communication with at least one of a master user and a master user device (Gehani, col. 4, lines 28-33).
10. With respect to claim 3, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is adapted to send information relating to the original copy of the data in the form of a delta, the delta containing information relating to changes between a previous state and the current state of the original copy of the data (Gehani, col. 7, lines 44-46).
11. With respect to claim 4, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is adapted to update the original copy of the data (Gehani, col. 7, lines 15-17).

12. With respect to claim 5, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is adapted to send a roll-back message indicating that a change to the original copy of the data should not be replicated on a slave server (Gehani, col. 7, lines 44-57).
13. With respect to claim 7, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is adapted to create a delta between the present state of the original copy of the data and the prior state of the original copy of the data (Gehani, Fig. 3; col. 5, lines 37-46).
14. With respect to claim 8, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is adapted to create a delta between the present state of the original copy of the data and a previous state of the original copy of the data (Gehani, Fig. 3; col. 5, lines 37-46).
15. With respect to claim 9, Gehani teaches the invention the invention described in claim 1, including a system where the master user layer is adapted to generate a unique version number for each state of the original copy of the data (Gehani, col. 5, lines 60-62).
16. With respect to claim 10, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to multicast the data replication packet (Gehani, col. 7, lines 3-5).

17. With respect to claim 11, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to heartbeat the data replication packet (Gehani, col. 7, lines 3-17).
18. With respect to claim 12, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to include a version number in the data replication packet (Gehani, col. 7, lines 44-46).
19. With respect to claim 13, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to include information necessary to update the copy of the data on the slave server to the current state of the original copy of the data (Gehani, col. 7, lines 44-60).
20. With respect to claim 14, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is further adapted to create and send a data replication packet comprising a delta (Gehani, col. 7, lines 44-60).
21. With respect to claim 15, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is further adapted to create and send a data replication packet comprising a delta between successive states of the original copy of the data (Gehani, Fig. 6; col. 8, lines 32-58).

22. With respect to claim 16, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is further adapted to create and send a data replication packet comprising a delta between arbitrary states of the original copy of the data (Gehani, col. 7, lines 44-46).
23. With respect to claim 17, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to request a delta from the master user layer (Gehani, col. 7, lines 44-46).
24. With respect to claim 18, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to send a commit message to a slave service layer (Gehani, col. 7, lines 44-46).
25. With respect to claim 19, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to heartbeat a commit message to a slave service layer (Gehani, col. 7, lines 3-17).
26. With respect to claim 20, Gehani teaches the invention the invention described in claim 1, including a system where the master service layer is adapted to multicast a commit message to a slave service layer (Gehani, col. 7, lines 3-5).

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27. With respect to claim 24, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is in communication with at least one of a slave user and a slave user device (Gehani, col. 4, lines 14-27).
28. With respect to claim 25, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is adapted to check the current version number of data stored on the slave server (Gehani, col. 7, lines 46-60).
29. With respect to claim 26, Gehani teaches a system where the slave user layer is adapted to commit information relating to the data replication packet to the data stored on the slave server (Gehani, col. 7, lines 46-60).
30. With respect to claim 27, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is adapted to abort an update to the data stored on the slave server (Gehani, col. 7, lines 46-60).
31. With respect to claim 28, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is adapted to process a prepare request contained in the data replication packet (Gehani, col. 7, lines 46-60).
32. With respect to claim 29, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is adapted to send a response to the slave

service layer relating to a prepare request contained in the data replication packet (Gehani, col. 7, lines 46-60).

33. With respect to claim 30, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is adapted to persistently cache data on a local disk (Gehani, col. 7, lines 46-60).

34. With respect to claim 31, Gehani teaches the invention the invention described in claim 1, including a system where the slave user layer is adapted to update the version number of the copy of the data on the slave server (Gehani, col. 7, lines 46-60).

35. With respect to claim 32, Gehani teaches the invention the invention described in claim 1, including a system where the slave service layer is adapted to request a delta from the master service layer (Gehani, col. 4, lines 41-45).

36. With respect to claim 33, Gehani teaches the invention the invention described in claim 1, including a system where the slave service layer is adapted to request the current version number of the data stored on the slave server from the slave user layer (Gehani, col. 7, lines 46-60).

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37. With respect to claim 34, Gehani teaches the invention the invention described in claim 1, including a system where the slave service layer is adapted to send a commit message to the slave user layer (Gehani, col. 7, lines 44-46).

38. With respect to claim 35, Gehani teaches the invention the invention described in claim 1, including a system where the slave service layer is adapted to send an abort message to the slave user layer (Gehani, col. 7, lines 54-57).

39. With respect to claim 36, Gehani teaches a method for replicating data from a master server to a slave server, comprising:

Sending a start call from a master user level to a master service level on a master server, the start call containing information relating to the current state of master data on the master server; sending the information to a slave service layer on a slave server (Gehani, col. 7, lines 44-46), the slave service layer adapted to check a slave user layer on the slave server to determine whether slave data on the slave server has the current state (Gehani, col. 7, lines 46-48); sending a request for a delta from the slave service layer to the master service layer, the master service layer adapted to request and receive a delta from the master user layer (Gehani, col. 4, lines 41-45); sending a delta from the master service layer to the slave service layer, the delta containing the information necessary to bring the slave data up to the current state, the slave service layer adapted to process the delta and send the information to the slave user layer ; and updating the slave data using the slave user layer (Gehani, col. 7, lines 46-60).

40. With respect to claim 37, Gehani teaches the invention the invention described in claim 36, including a method further comprising: determining a version number for the current state of the data using the master user layer (Gehani, col. 7, lines 44-46).

41. With respect to claim 38, Gehani teaches the invention the invention described in claim 36, including a method further comprising: sending the information to the slave service layer by multicasting (Gehani, col. 7, lines 3-5).

42. With respect to claim 39, Gehani teaches the invention the invention described in claim 36, including a method further comprising: sending information to the slave service layer, the information comprising a version number for the current state of the master data (Gehani, col. 7, lines 44-46).

43. With respect to claim 40, Gehani teaches a method for replicating data from a master server to a slave server, comprising:

Sending a new delta from a master user level to a master service level on a master server, the delta containing information relating to a change from the prior state to the current state in master data stored on the master server; sending the new delta from the master service layer to a slave service layer on a slave server (Gehani, col. 7, lines 44-46), the slave service layer adapted to check a slave user layer on the slave server to determine whether the slave data on the slave server has the current state (Gehani, col. 7, lines 46-48); sending a request for a syncing delta from the slave service layer to the master service layer (Gehani, col. 4,

lines 41-45), the master service layer adapted to request and receive a syncing delta from the master user layer, the syncing delta containing information necessary to update the slave data to the prior state of the master data; sending the syncing delta from the master service layer to the slave service layer, the slave service layer adapted to process the delta and send the information to the slave user layer to be committed to the slave data; and committing the information in the new delta to the slave data using the slave user layer (Gehani, col. 7, lines 46-60).

44. With respect to claim 41, Gehani teaches a method for replicating data from a master server to a slave server over a network, the method comprising the steps of:

Sending a version number from a master service layer to a slave service layer relating to the present state of the original copy of the data on the master server (Gehani, col. 7, lines 44-46); allowing a slave user layer to determine whether the data on the slave server has been updated to correspond to the version number (Gehani, col. 7, lines 46-48); and requesting a delta be sent from the master service layer to the slave service layer if the data on the slave server does not correspond to the version number (Gehani, col. 7, lines 46-60).

45. With respect to claim 42, Gehani teaches a method according to claim 36, further comprising: allowing the slave user layer to persistently cache the data on a local disk for each slave server (Gehani, col. 7, lines 46-60).

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46. With respect to claim 43, Gehani teaches a method according to claim 36, further comprising: allowing the master user layer to determine a unique version number for the current state of the data on the master server (Gehani, col. 5, lines 60-62).

47. With respect to claim 44, Gehani teaches a method according to claim 36, further comprising: including data with the version number that is necessary for a slave user layer to update the data on a slave server (Gehani, col. 7, lines 44-46).

48. With respect to claim 45, Gehani teaches a method according to claim 36, further comprising: committing the data necessary to update the slave server as soon as it is received by the slave user layer (Gehani, col. 7, lines 44-46).

49. With respect to claim 46, Gehani teaches a method for replicating data over a network including a master server and at least one slave server, the method comprising the steps of:

Sending a packet of information from a master service layer to a slave service layer on each slave server on the network, the information relating to a change in the data stored on the master server and containing a prior version number for the prior state and a new version number for the new state of the data, the information further relating to previous changes in the data and a previous version number for each previous change (Gehani, col. 7, lines 44-46); allowing a slave user layer on each slave server to determine whether the data on the slave server corresponds to the prior version number contained in the packet (Gehani, col. 7, lines 46-48); allowing each slave user layer to commit the packet of information if the data on the slave

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server corresponds to the prior version number contained in the packet, the commit also updating the version of the slave server to the new version number; and allowing each slave user layer not corresponding to the prior version number to request that a delta be sent from the master service layer to the slave service layer corresponding to that slave user layer, the delta containing the information necessary to update the slave to the prior version number before the slave service layer commits the packet of information (Gehani, col. 7, lines 46-60).

50. With respect to claim 47, Gehani teaches a method for replicating data from a master server to at least one slave server over a network, the method comprising the steps of:

Sending a packet of information from a master service layer on the master server to the user service layer on a slave server, the information relating to a change in the data stored on the master server and containing a version number for the present state of the data (Gehani, col. 7, lines 44-46); allowing the slave user layer on the server to determine whether the slave server has been updated to correspond to the version number contained in the packet, and to further determine whether the slave user layer can process the packet of information if needed to update to correspond to the version number contained in the packet (Gehani, col. 7, lines 46-48); sending a signal from the slave service layer to the master service layer, the signal indicating whether the slave server needs to be updated and whether the slave server can process the update (Gehani, col. 4, lines 41-45); sending a response signal from the master service layer to the slave service layer indicating whether the slave user layer should commit to the information contained in the packet; and committing the packet of information to the slave server if so indicated by the response signal (Gehani, col. 7, lines 46-60).

51. With respect to claim 48, Gehani teaches a computer-readable medium, comprising: means for sending a version number from a master service layer to a slave service layer relating to the present state of the original copy of the data on the master server (Gehani, col. 7, lines 44-46); means for allowing a slave user layer to determine whether the data on the slave server has been updated to correspond to the version number (Gehani, col. 7, lines 46-48); and means for requesting a delta be sent from the master service layer to the slave service layer if the data on the slave server does not correspond to the version number (Gehani, col. 4, lines 41-45).

52. With respect to claim 49, Gehani teaches a computer program product for execution by a server computer for replicating data from a master server to a slave server over a network, comprising:

Computer code for sending a version number from a master service layer to a slave service layer relating to the present state of the original copy of the data on the master server (Gehani, col. 7, lines 44-46); computer code for allowing a slave user layer to determine whether the data on the slave server has been updated to correspond to the version number (Gehani, col. 7, lines 46-48); and computer code for requesting a delta be sent from the master service layer to the slave service layer if the data on the slave server does not correspond to the version number (Gehani, col. 4, lines 41-45).

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53. With respect to claim 50, Gehani teaches a system for replicating data over a network, comprising:

Means for sending a version number from a master service layer to a slave service layer relating to the present state of the original copy of the data on the master server (Gehani, col. 7, lines 44-46); means for allowing a slave user layer to determine whether the data on the slave server has been updated to correspond to the version number (Gehani, col. 7, lines 46-48); and means for requesting a delta be sent from the master service layer to the slave service layer if the data on the slave server does not correspond to the version number (Gehani, col. 4, lines 41-45).

54. With respect to claim 51, Gehani teaches a computer system comprising:

A processor; object code executed by the processor, the object code configured to: send a version number from a master service layer to a slave service layer relating to the present state of the original copy of the data on the master server (Gehani, col. 7, lines 44-46); allow a slave user layer to determine whether the data on the slave server has been updated to correspond to the version number (Gehani, col. 7, lines 46-48); and request a delta be sent from the master service layer to the slave service layer if the data on the slave server does not correspond to the version number (Gehani, col. 4, lines 41-45).

Claim Rejections - 35 USC § 103

55. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

56. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gehani and further in view of Mosher et al. (U.S. 6,785,696).

Gehani teaches the invention substantially as claimed including a replication protocol which includes associating a database version vector with each copy of the database in the system, the database version vectors of the replicas are compared to efficiently determine if update replication is necessary.

57. With respect to claim 6, Gehani teaches the invention described in claim 1, including a master server containing an original copy of the data, the master server comprising: a master user layer adapted to start a data replication process by calling a start method, the master user layer further adapted to send information relating to the original copy of the data; a master service layer containing the start method and adapted to receive the call from the master user layer and the information relating to the original copy of the data, the master service layer further adapted to create and send a data replication packet containing at least some of the information relating to the original copy of the data (Gehani, col. 7, lines 44-46).

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Gehani does not explicitly teach the use of a timeout value for replication.

However, Mosher teaches a system where the master user layer is adapted to set a timeout value for the replication (Mosher, Fig. 5B; col. 7, lines 4-10).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gehani in view of Mosher in order to enable the use of a timeout value for replication. One would be motivated to do so in order to allow for a proper synchronization of the database files.

58. Claims 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gehani and further in view of Fiske (U.S. 6,324,692).

Gehani teaches the invention substantially as claimed including a replication protocol which includes associating a database version vector with each copy of the database in the system, the database version vectors of the replicas are compared to efficiently determine if update replication is necessary.

59. With respect to claim 21, Gehani teaches the invention described in claim 1, including a master server containing an original copy of the data, the master server comprising: a master user layer adapted to start a data replication process by calling a start method, the master user layer further adapted to send information relating to the original copy of the data; a master service layer containing the start method and adapted to receive the call from the master user layer and the information relating to the original copy of the data, the master service layer

further adapted to create and send a data replication packet containing at least some of the information relating to the original copy of the data (Gehani, col. 7, lines 44-46).

Gehani does not explicitly teach the master server sending the slave server an abort message.

However, Fiske teaches a system where the master service layer is adapted to send an abort message to a slave service layer (Fiske, col. 5, lines 37-42).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gehani in view of Fiske in order to enable the master server sending the slave server an abort message. One would be motivated to do so in order to allow for the master server to correct potential mistakes encountered during replication.

60. With respect to claim 22, Gehani teaches the invention described in claim 1, including a system where the master service layer is adapted to heartbeat the data replication packet (Gehani, col. 7, lines 3-17).

Gehani does not explicitly teach the master server sending the slave server an abort message.

However, Fiske teaches a system where the master service layer is adapted to send an abort message to a slave service layer (Fiske, col. 5, lines 37-42).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gehani in view of Fiske in order to enable the master server sending the slave server an abort message. One would be motivated to do so in order to allow for the master server to correct potential mistakes encountered during replication.

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61. With respect to claim 23, Gehani teaches the invention described in claim 1, including a system where the master service layer is adapted to multicast the data replication packet (Gehani, col. 7, lines 3-5).

Gehani does not explicitly teach the master server sending the slave server an abort message.

However, Fiske teaches a system where the master service layer is adapted to send an abort message to a slave service layer (Fiske, col. 5, lines 37-42).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gehani in view of Fiske in order to enable the master server sending the slave server an abort message. One would be motivated to do so in order to allow for the master server to correct potential mistakes encountered during replication.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Baturay whose telephone number is (571) 272-3981. The examiner can normally be reached at 7:30am - 5pm, Monday - Thursday, and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia Baturay
August 20, 2005

Bharat Barot.
BHARAT BAROT
PRIMARY EXAMINER